

AMENDMENTS TO THE CLAIMS

What is claimed is:

1. (Currently Amended) A new media identification system comprising:
 - at least one analysis module for receiving data including data for a work from a plurality of sources, ~~and~~ generating a corresponding representation thereof from said data, and transmitting said representation;
 - at least one First Tier identification (~~ID~~) server for receiving said representation and identifying received works said work from said representation; and
 - at least one Second Tier ID server for identifying ~~repeating received works~~ said work from said representation when said at least one First Tier Identification server does not identify said work.
2. (Currently Amended) The system of claim 1, wherein said at least one analysis module further includes an input port configured to receive said ~~received work~~ data from a networked source.
3. (Currently Amended) The system of claim 1, wherein said at least one analysis module further includes an input port configured to receive said ~~received work~~ data from a broadcast source.
4. (Currently Amended) The system of claim 1, wherein said at least one analysis module further includes an input port configured to receive said ~~received work~~ data in the form of a pre-broadcast digital form.

5. (Currently Amended) The system of claim 1, wherein said at least one analysis module and said at least one ~~ID~~ First Tier Identification server ~~may be~~ are coupled over a network.
6. (Original) The system of claim 5, wherein said network comprises the Internet.
7. (Currently Amended) The system of claim 1, wherein said ~~corresponding~~ representation comprises feature vectors.
8. (Currently Amended) The system of claim 1, wherein said ~~corresponding~~ representation comprises a spectral representation of said ~~received~~ work.
9. (Currently Amended) The system of claim 1, wherein said ~~corresponding~~ representation comprises the text output of a speech recognition system.
10. (Currently Amended) The system of claim 1, wherein said ~~corresponding~~ representation comprises the musical score output of a music transcription system.
11. (Currently Amended) The system of claim 1, wherein said ~~corresponding~~ representation comprises a bit calculated key.
12. (Currently Amended) The system of claim 1, wherein said First Tier ~~ID~~ Identification server is configured to identify said received work using feature vectors from said representation.
13. (Currently Amended) The system of claim 1, wherein said First Tier ~~ID~~ Identification server is configured to identify said received work using a spectral representation ~~of said received work~~ from said representation.

14. (Currently Amended) The system of claim 1, wherein said First Tier ~~ID~~ Identification server is configured to identify said received work using the text output of a speech recognition system from said representation.
15. (Currently Amended) The system of claim 1, wherein said First Tier ~~ID~~ Identification server is configured to identify said received work using the musical score output of a music transcription system from said representation.
16. (Currently Amended) The system of claim 1, wherein said First Tier ~~ID~~ Identification server is configured to identify said received work using a bit calculated key from said representation.
17. (Currently Amended) The system of claim 1, wherein said First Tier ~~ID~~ Identification server is configured to identify said received work using feature vectors from said representation.
18. (Currently Amended) The system of claim 1, wherein said Second Tier ~~ID~~ Identification server is configured to identify said received work using a spectral representation ~~of said received work~~ from said representation.
19. (Currently Amended) The system of claim 1, wherein said Second Tier ~~ID~~ Identification server is configured to identify said received work using the text output of a speech recognition system from said representation.
20. (Currently Amended) The system of claim 1, wherein said Second Tier ~~ID~~ Identification server is configured to identify said received work using the musical score output of a music transcription system.

21. (Currently Amended) The system of claim 1, wherein said Second Tier ~~ID~~ Identification server is configured to identify said received work using a bit calculated key.
22. (Original) The system of claim 1, wherein said at least one analysis modules are further configured to receive a plurality of streaming sources for analysis at a single location.
23. (Original) The system of claim 1, wherein said at least one analysis modules are further configured to receive a plurality of streaming sources for analysis at a plurality of different access points of the network.
24. (Currently Amended) The system of claim 1, wherein said at least one analysis module is configured to provide said representations to said at least one First Tier ~~ID-Identification~~ server at a predetermined time interval.
25. (Original) The system of claim 24, wherein said predetermined time interval comprises at least once a day.
26. (Original) The system of claim 24, wherein said predetermined time interval comprises approximately once an hour.
27. (Currently Amended) The system of claim 24, wherein said at least one analysis module is configured to provide said ~~representations~~ representation to said at least one First Tier ~~ID Identification~~ server ~~in approximately real-time~~ responsive to generating said representation.

28. (Currently Amended) The system of claim 24, wherein said at least one analysis module is configured to provide said representations to said at least one First Tier ~~ID~~Identification server based on an out-of-band event.
29. (Currently Amended) The system of claim 1, wherein said First Tier ~~ID~~Identification server is further configured to generate a playlist of identified works.
30. (Currently Amended) A method for identifying ~~new media~~ a work from data received by an analysis module that generates a representation of said data and wherein said data includes data of said work comprising:
- receiving a ~~segment of a media stream~~ said representation by a First Tier ~~ID~~Identification server;
- attempting, by said First Tier ~~ID~~Identification server, to identify said ~~segment~~ from said representation;
- if identification of said work is not possible, then, determining whether said ~~segment- representation~~ is similar to previously received unidentified segments representations; and
- if said ~~segment representation~~ is similar to a previously received unidentified segment representation, then sending said ~~segment representation~~ to a Second Tier ~~ID~~Identification server for identification.
31. (Currently Amended) The method of claim 30, wherein said Second Tier ~~ID~~Identification server includes a plurality of tiers of ~~ID~~Identification servers.

32. (Currently Amended) The method of claim 30, further including the act of providing a reference database of ~~segments~~ representations expected to be detected on said First Tier ~~ID~~ Identification server.
33. (Currently Amended) A system for ~~managing the contents of an n-Tiered ID System~~ identifying a work using an N tiered Identification server system wherein said work is included in data received by an analysis module and wherein said analysis module generates a representation of said data and transmits said representation to said N tiered Identification Server system comprising:
- a Tier N server including a database of a first plurality of representations of identified works ;
 - at least one Tier N+1 server including a database of a second plurality of representations of identified works; and
- wherein said Tier N server is configured to receive a representation and attempt to identify a work by comparing said representation to representations in said first plurality of representations and send repeating unidentified segments representations to said Tier N+1 for identification.
34. (Currently Amended) The system of claim 4-~~33~~, wherein said at least one Tier N+1 server is configured to notify said Tier N server of a repeating segment if a repeating segment is identified.
35. (Currently Amended) The system of claim ~~33-33~~, wherein each successive said at least one Tier N+1 server includes a database larger ~~than the previous tier~~ said database of said N Tier server.

36. (Currently Amended) The system of claim 35, wherein all said ~~successive~~ at least one N+1 tiers operate in parallel.
37. (Currently Amended) The system of claim 36, wherein the operation of said ~~successive~~ N+1 tiers is aborted upon the identification of an unknown segment by a member of said successive tiers.
38. (Currently Amended) The system of claim 33, further including a set of smaller Tier N-1 ~~ID~~ servers having databases smaller than said Tier N server.
39. (Currently Amended) A system for identifying new media comprising:
- means for receiving a ~~segment of a media stream~~ said representation by a First Tier ~~ID~~ Identification server;
- means for attempting, by said First Tier ~~ID~~ Identification server, to identify said ~~segment~~ from said representation;
- means for determining whether said ~~segment~~ representation is similar to previously received unidentified ~~segments~~ representations if identification of said work is not possible; and
- means for sending said ~~segment~~ representation to a Second Tier ~~ID~~ Identification server for identification if said ~~segment~~ representation is similar to a previously received unidentified ~~segment~~ representation.
40. (Currently Amended) The system of claim 39, wherein said Second Tier ~~ID~~ Identification server includes a plurality of tiers of ~~ID~~ Identification servers.

41. (Currently Amended) The method of claim 39, further including means for providing a reference database of ~~segments~~ representations expected to be detected on said First Tier ~~ID~~ identification server.
42. (Currently Amended) A program storage device readable by a machine containing a set of instructions to perform a method by the machine, the method comprising:
- ~~receiving a segment of a media stream~~ said representation by a First Tier ~~ID~~ Identification server;
- attempting, by said First Tier ~~ID~~ Identification server, to identify said ~~segment~~ from said representation;
- if identification of said work is not possible, then, determining whether said ~~segment- representation~~ is similar to previously received unidentified ~~segments representations~~; and
- if said ~~segment representation~~ is similar to a previously received unidentified ~~segment representation~~, then sending said ~~segment representation~~ to a Second Tier ~~ID~~ Identification server for identification.
43. (Currently Amended) The device of claim 42, wherein said Second Tier ~~ID~~ Identification server includes a plurality of tiers of ~~ID~~ Identification servers.
44. (Currently Amended) The device of claim 42, further including means for providing a reference database of ~~segments~~ representations expected to be detected on said First Tier ~~ID~~ identification server.